

**Central Mass. Mosquito Control Project**  
**Weekly Report- 8/26/18-9/1/18**  
**EPI Week #35**

**Cumulative Surveillance Summary**

<b>Target Species</b>	<b><i>Ae. vex</i></b>	<b><i>Cq. per</i></b>	<b><i>Cs. mel</i></b>	<b><i>Oc. can</i></b>	<b><i>Culex</i></b>	<b>All Species</b>
<b>No. Pools</b>	126	523	121	160	1302	4190
<b>Total Specimens</b>	1184	46807	299	2042	32279	90000
<b>No. Pools WNV +</b>	0	1 <sup>†</sup>	0	0	109 <sup>†</sup>	110 <sup>†</sup>
<b>No. Pools EEE +</b>	0	0	0	0	0	0

- †Pool of WNV+ *Culex* species collected in Hopedale on 6/20/18
- †Pool of WNV+ *Culex* species collected in Worcester on 6/28/18
- †Pool of WNV+ *Culex* species collected in Auburn on 6/29/18
- †Pool of WNV+ *Culex* species collected in Millbury on 7/6/18
- †Pool of WNV+ *Culex* species collected in Worcester on 7/11/18
- †Pool of WNV+ *Culex* species collected in Northborough on 7/11/18
- †Pool of WNV+ *Culex* species collected in Worcester on 7/12/18
- †Pool of WNV+ *Culex* species collected in Acton on 7/12/18
- †Pool of WNV+ *Culex* species collected in Acton on 7/12/18
- †Pool of WNV+ *Culex* species collected in Auburn on 7/13/18
- †Pool of WNV+ *Culex* species collected in Ayer on 7/13/18
- †Pool of WNV+ *Culex* species collected in Blackstone on 7/17/18
- †Pool of WNV+ *Culex* species collected in Worcester on 7/19/18
- †Pool of WNV+ *Culex* species collected in Worcester on 7/19/18
- †Pool of WNV+ *Culex* species collected in Clinton on 7/19/18
- †Pool of WNV+ *Culex* species collected in Ashland on 7/19/18
- †Pool of WNV+ *Culex* species collected in Northbridge on 7/20/18
- †Pool of WNV+ *Culex* species collected in Devens on 7/20/18
- †Pool of WNV+ *Culex* species collected in Devens on 7/20/18
- †Pool of WNV+ *Culex* species collected in Berlin on 7/24/18
- †Pool of WNV+ *Culex* species collected in Webster on 7/24/18
- †Pool of WNV+ *Culex* species collected in Millville on 7/24/18
- †Pool of WNV+ *Culex* species collected in Hopedale on 7/25/18
- †Pool of WNV+ *Culex* species collected in Shrewsbury on 7/25/18
- †Pool of WNV+ *Culex* species collected in Northborough on 7/25/18
- †Pool of WNV+ *Culex* species collected in Northborough on 7/25/18
- †Pool of WNV+ *Culex* species collected in Northborough on 7/25/18
- †Pool of WNV+ *Culex* species collected in Northborough on 7/25/18
- †Pool of WNV+ *Culex* species collected in Worcester on 7/25/18
- †Pool of WNV+ *Culex* species collected in Worcester on 7/25/18
- †Pool of WNV+ *Culex* species collected in Worcester on 7/25/18
- †Pool of WNV+ *Culex* species collected in Worcester on 7/26/18
- †Pool of WNV+ *Culex* species collected in Clinton on 7/26/18
- †Pool of WNV+ *Culex* species collected in Clinton on 7/26/18
- †Pool of WNV+ *Culex* species collected in Natick on 7/26/18

†Pool of WNV+ *Culex* species collected in Lancaster on 7/20/18  
†Pool of WNV+ *Culex* species collected in Southborough on 8/1/18  
†Pool of WNV+ *Culex* species collected in Southborough on 8/1/18  
†Pool of WNV+ *Culex* species collected in Northborough on 8/1/18  
†Pool of WNV+ *Culex* species collected in Northborough on 8/1/18  
†Pool of WNV+ *Culex* species collected in Northborough on 8/1/18  
†Pool of WNV+ *Culex* species collected in Worcester on 8/1/18  
†Pool of WNV+ *Culex* species collected in Worcester on 8/1/18  
†Pool of WNV+ *Culex* species collected in Worcester on 8/1/18  
†Pool of WNV+ *Culex* species collected in Shrewsbury on 8/1/18  
†Pool of WNV+ *Culex* species collected in Hudson on 8/1/18  
†Pool of WNV+ *Culex* species collected in Clinton on 8/2/18  
†Pool of WNV+ *Culex* species collected in Worcester on 8/2/18  
†Pool of WNV+ *Culex* species collected in Worcester on 8/2/18  
†Pool of WNV+ *Culex* species collected in Boylston on 8/2/18  
†Pool of WNV+ *Culex* species collected in Auburn on 8/3/18  
†Pool of WNV+ *Culex* species collected in Ayer on 8/3/18  
†Pool of WNV+ *Culex* species collected in Ayer on 8/3/18  
†Pool of WNV+ *Culex* species collected in Wilmington on 8/7/18  
†Pool of WNV+ *Coquillettidia perturbans* collected in Sturbridge on 8/7/18  
†Pool of WNV+ *Culex* species collected in Gardner on 8/7/18  
†Pool of WNV+ *Culex* species collected in Leominster on 8/7/18  
†Pool of WNV+ *Culex* species collected in Leominster on 8/7/18  
†Pool of WNV+ *Culex* species collected in Berlin on 8/7/18  
†Pool of WNV+ *Culex* species collected in Worcester on 8/8/18  
†Pool of WNV+ *Culex* species collected in Worcester on 8/8/18  
†Pool of WNV+ *Culex* species collected in Hudson on 8/8/18  
†Pool of WNV+ *Culex* species collected in Milford on 8/8/18  
†Pool of WNV+ *Culex* species collected in Marlborough on 8/8/18  
†Pool of WNV+ *Culex* species collected in Northborough on 8/8/18  
†Pool of WNV+ *Culex* species collected in Northborough on 8/8/18  
†Pool of WNV+ *Culex* species collected in Shrewsbury on 8/8/18  
†Pool of WNV+ *Culex* species collected in Worcester on 8/9/18  
†Pool of WNV+ *Culex* species collected in Clinton on 8/9/18  
†Pool of WNV+ *Culex* species collected in Devens on 8/10/18  
†Pool of WNV+ *Culex* species collected in Devens on 8/10/18  
†Pool of WNV+ *Culex* species collected in Dracut on 8/10/18  
†Pool of WNV+ *Culex* species collected in Sturbridge on 8/14/18  
†Pool of WNV+ *Culex* species collected in Worcester on 8/15/18  
†Pool of WNV+ *Culex* species collected in Blackstone on 8/15/18  
†Pool of WNV+ *Culex* species collected in Blackstone on 8/15/18  
†Pool of WNV+ *Culex* species collected in Worcester on 8/15/18  
†Pool of WNV+ *Culex* species collected in Hopedale on 8/15/18  
†Pool of WNV+ *Culex* species collected in Hopedale on 8/15/18  
†Pool of WNV+ *Culex* species collected in Stow on 8/15/18  
†Pool of WNV+ *Culex* species collected in Southborough on 8/15/18

- †Pool of WNV+ *Culex* species collected in Hopedale on 8/15/18
- †Pool of WNV+ *Culex* species collected in Worcester on 8/16/18
- †Pool of WNV+ *Culex* species collected in Worcester on 8/16/18
- †Pool of WNV+ *Culex* species collected in Natick on 8/16/18
- †Pool of WNV+ *Culex* species collected in Littleton on 8/16/18
- †Pool of WNV+ *Culex* species collected in Worcester on 8/16/18
- †Pool of WNV+ *Culex* species collected in Worcester on 8/16/18
- †Pool of WNV+ *Culex* species collected in Ashland on 8/16/18
- †Pool of WNV+ *Culex* species collected in Northbridge on 8/17/18
- †Pool of WNV+ *Culex* species collected in Lunenburg on 8/17/18
- †Pool of WNV+ *Culex* species collected in Lunenburg on 8/17/18
- †Pool of WNV+ *Culex* species collected in Lunenburg on 8/17/18
- †Pool of WNV+ *Culex* species collected in Westborough on 8/17/18
- †Pool of WNV+ *Culex* species collected in Westborough on 8/17/18
- †Pool of WNV+ *Culex* species collected in Auburn on 8/17/18
- †Pool of WNV+ *Culex* species collected in Leominster on 8/21/18
- †Pool of WNV+ *Culex* species collected in Wilmington on 8/21/18
- †Pool of WNV+ *Culex* species collected in Berlin on 8/21/18
- †Pool of WNV+ *Culex* species collected in Milford on 8/22/18
- †Pool of WNV+ *Culex* species collected in Stow on 8/22/18
- †Pool of WNV+ *Culex* species collected in Northborough on 8/22/18
- †Pool of WNV+ *Culex* species collected in Marlborough on 8/22/18
- †Pool of WNV+ *Culex* species collected in Worcester on 8/22/18
- †Pool of WNV+ *Culex* species collected in Worcester on 8/22/18
- †Pool of WNV+ *Culex* species collected in Westborough on 8/24/18
- †Pool of WNV+ *Culex* species collected in Auburn on 8/24/18
- †Pool of WNV+ *Culex* species collected in Lowell on 8/24/18
- †Pool of WNV+ *Culex* species collected in Lancaster on 8/24/18
- †Pool of WNV+ *Culex* species collected in Ayer on 8/24/18

**Weather Summary (Northborough, MA):** The weather for this particular week averaged 75.5°F with a recorded high temperature of 97.7°F and a recorded low temperature of only 56.2°F. For this week there was also a total of 0.04 inches of rain observed. Compared to the previous week, it was approximately 7.6°F warmer on average, and rained about 0.10 inches less. There has been 2.30 inches of rain accumulated in August, after 4.55 inches for the month of July.

**CMMCP Mosquito Summary-**

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+25.87%	+253.5%	Wilmington, Billerica
<i>Coquillettidia perturbans</i>	+257.3%	+149.8%	Tewksbury, Milford
<i>Culiseta melanura</i>	+4.550%	+65.90%	Tewksbury, Gardner
<i>Ochlerotatus canadensis</i>	+166.7%	-44.76%	Gardner, Fitchburg
<i>Culex</i> Species	+213.7%	+94.13%	Southborough, Tewksbury

All Species	+151.7%	+88.34%	Tewksbury, Southborough
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The predominant mosquito for the week was *Culex* species, followed by *Coquillettidia perturbans*.

**General narrative:** The temperatures for EPI week 35 averaged approximately 7.6°F warmer than the previous week, with only 0.04 inches of precipitation observed. The overall collection numbers increased compared to the previous week, with the cumulative collections remaining significantly higher compared to last season. All target species experienced increases this week. The most abundant mosquito was again *Culex* species, followed by *Coquillettidia perturbans*. Fourteen pools of *Culex* mosquitoes from EPI week 34 tested positive for West Nile virus. These pools were collected from Auburn, Ayer, Berlin, Lancaster, Leominster, Lowell, Marlborough, Milford, Northborough, Stow, Westborough, Wilmington, and Worcester. The season total of WNV positive collections from the CMMCP service area is currently 110. The final number of eggs collected for *Aedes albopictus* surveillance during EPI week 34 was 1183.